



# TORRENT™ FILTER VESSELS



## Description

Torrent high flow filter vessels are designed to meet the wide-range of solids removal needs in fluid processing industries. Many applications require a higher flux rates, which require a unique cartridge and vessel design. Torrent high flow filter technology is engineered to deliver low pressure drops and high dirt loading capacity in this unique cartridge design. Torrent high flow technology is ideal for low viscosity fluids and clean fluids where higher flux rates are acceptable. It is also recommended for standard fluids and solids loading applications where inside-to-outside flow is desired.

## Features & Benefits

- Standard models provide flow rates up to 21,500 gpm (4,883 m<sup>3</sup>/hr); higher capacity models also available
- Torrent cartridge technology allows customer to better manage the effluent solids concentration and particle size in their liquid processes
- Inside to outside flow path ensures all contaminant is contained on the inside of the filter cartridge so all filtered solids are removed with the cartridge
- High Flow filter vessels provide maximum flow capacity in a given footprint
- Torrent cartridges are offered with a wide range of materials of construction to provide compatibility under the most challenging conditions ensuring process reliability
- Each vessel design is engineered to provide positive o-ring seal, lowest pressure drop and operator friendly cartridge replacement
- Ergonomic horizontal design allows for easy operations & eliminates the need for a platform

## Options

- ASME Section VIII Div 1, CRN or non-code
- Horizontal configuration standard; Vertical orientation also available
- Carbon Steel, 304SS, 316SS standard materials of construction. Other alloys available: D2205 duplex, SD2507 super duplex, Hastelloy and Monel
- Buna, EPDM, Viton®, Teflon encapsulated Viton standard options; Others available
- Swing Bolt (standard), Quick Opening and Blind Flanged closures
- ANSI RF Class 150 PSI standard flange connections; Higher flanges ratings also available

## Markets

- General Industrial
- Oil & Gas
- Water Treatment
- Chemical Production
- Power Generation
- Food & Beverage

## Common Applications

- Water
- Pre-RO Water
- Sea Water
- Wastewater
- Brines
- LNG
- LPG
- Light Hydrocarbons
- Organic Solvents
- Fuels
- Acids
- Bases
- Chemicals

## NUMBER OF TORRENT HIGH FLOW CARTRIDGES PER VESSEL DIAMETER

Torrent High Flow Series	8"	18"	24"	30"	36"	42"	48"	54"	60"
Torrent 600	1	4	7	12	19	22	31	37	43

## TYPICAL INLET/OUTLET PIPE SIZES PER VESSEL DIAMETER

Vessel Diameter	8"	18"	24"	30"	36"	42"	48"	54"	60"
Inlet/Outlet Pipe Size (in)	<b>3"</b>	4"	6"	8"	12"	12"	14"	16"	18"
	4"	<b>6"</b>	<b>8"</b>	<b>10"</b>	<b>14"</b>	<b>14"</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>

\*Standard pipe sizes in bold.

## TORRENT SOLID-LIQUID FILTRATION VESSEL CODING

Use the chart below to create cartridge part number for ordering. Please include dashes when creating part numbers.

	Vessel Series	Orientation	Diameter	Vessel Closure	Materials of Construction	Flange Pressure Rating	Inlet/Outlet Size	Torrent 600 FTC Cartridge Style	Vessel Seal	Vessel Certification
EXAMPLE	SLT	V	18		S4	150	3F	660	B	U
OPTIONS	Solid-Liquid Torrent High Flow Vessel	V Vertical	8 18 24 30 36 42 48 54 60	blank Swing Bolt	C Carbon Steel S4 304 SS S6 316 SS D Duplex 2205 SS SD Super Duplex 2507 SS H Hastelloy M Monel	150 300 600 900	3F 4F 6F 8F 10F 12F 14F 16F 18F 20F	620 20" 640 40" 660 60"	B Buna-N E EPDM V Viton A TEV PTFE encapsulated Viton W Spiral Wound	U ASME Code C CRN Stamp blank Non-Code

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